
5 AUTOMATIC INSTALLATION AND PROCESS FOR TAKING MEASUREMENTS
AND ACQUIRING SHAPES

The present invention has for its object an automatic and autonomous installation for taking measurements and acquiring three-dimensional shapes of subjects, particularly in the form of a booth adapted for human subjects, comprising at least one unit for projecting light fringes and at least one unit for taking rapid views, as well as a unit for controlling the installation and for processing the acquired views.

Device characterized in that said units (4, 5) for projection and taking views are gathered in one or several acquisition heads (3) and in that said installation (1) also comprises, on the one hand, several markers or fixed reference points and several reference projection surfaces (8), for example planes, surrounding the zone (9) for acquisition and measurement receiving the subject (2) to be acquired and located in the field of view of the unit or each of the units (5) for taking views and, on the other hand, a means (10) for generating a temporary wall of light opposite said at least one acquisition head (3) or each of said acquisition heads (3) relative to the acquisition zone (9).

- Fig. 1B -

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